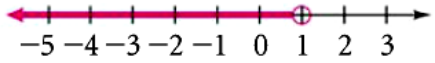
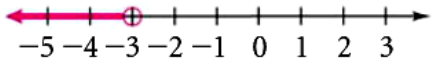
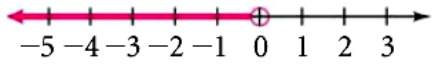
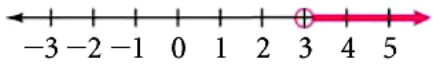
Name:_____Per:_____

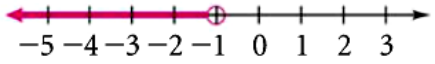
Match each inequality with its graph below.

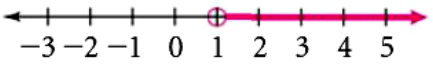
A. 

B. 

C. 

D. 

E. 

F. 

1. $-2x-2>4$

2. $2-2x>4$

3. $2x+2>4$

4. $2x+2>4x$

5. $2x-2>4$

6. $-2(x-2)>4$

Solve and graph each inequality

7. $3(3x+1)-(x+4)\le 13$

8. $17-(4x-2)\ge 2(x+3)$

9. $5a-2(a-15)<10$

10. $5c+4(c-1)\ge 2+5(2+c)$

11. Systolic blood pressure is the higher number in a blood pressure reading. It is measured as your heart muscle contracts. The formula $P \le \frac{1}{2}a + 110$ gives the normal systolic blood pressure P based on age a.

a. At age 20, does 120 represent a maximum or a minimum normal systolic pressure?

b. Find the normal systolic blood pressure for a 50-year-old person.

12. Determine whether each inequality is *always* true or *never* true.

i. $4s + 6 \ge 6 + 4s$ **ii.** $3r + 5 > 3r - 2$ **iii.** $4(n + 1) < 4n - 3$